

ABSTRACT
AN OPTICAL COUPLING MOUNT

5 An optical coupling mount for use in coupling light between a semiconductor
waveguide device and an optical fibre comprises a silica based spot size converter (3)
located on an optical bench (1) with a trench (8) and grooves (9), whereby the
semiconductor device (2) can be positioned in close alignment with the spot size converter
(3). The spot size converter (3) comprises a tapered upper waveguide (4) located above
a non-tapered lower waveguide (6). The dimensions of the spot size converter (3) are
10 such that a semiconductor device emitting a small, astigmatic optical beam can be
efficiently coupled to a single mode fibre requiring a larger, concentric beam.

[Figure 1]

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